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NEW YORK STATE COLLEGE OF AGRICULTURE

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Royal Gilkey, B.S.A., Supervisor of Mailing Rooms and Reading Courses.
Gilbert Arthur Renney, Superintendent of Mailing Rooms.

THE WINTER COURSES

The Winter Courses are five in number.

1. General Agriculture (first given in 1893).
2. Dairy Industry (first given in 1894).
3. Poultry Husbandry (first given in 1905).
4. Horticulture (first given in 1906).
5. Home Economics (first given in 1906).

All of these courses will begin November 28, 1911, and will close February 23, 1912. Instruction will begin at 8 a. m., November 29. No work will be given on December 23, 24, 25, and 26.

Correspondence concerning these courses and other instruction in the College of Agriculture, may be addressed to the Secretary; or, when pertaining specially to one of the Winter Courses, to the person in charge of the course, as announced below.

It is advised that students plan to spend two winters at the College, the first winter taking the course in General Agriculture, and the second winter specializing in the subject in which they are particularly interested.

Expenses

Tuition is free to residents of New York State. Non-residents pay a tuition fee of \$25. There are a few small fees and incidental expenses which are detailed under the description of each course, but practically the only expense is the cost of living in Ithaca and the railroad fare to and from Ithaca. Satisfactory table board can be secured in Ithaca, within five to fifteen minutes walk of the campus, for about \$4.00 to \$4.50 a week. Comfortable rooms near the place of boarding may be had at \$1.50 to \$2 a week for each person when two persons occupy the room, and at \$2.50 to \$3.50 when one person occupies the room. The cost of books need not be more than \$5, but it has been the experience of Winter Course students in the past that they wish to purchase a number of books to take home, and it would be well, if possible, to allow at least \$10 for them. The expenses of the students in the Winter Courses of past years, as stated by them, have been from \$85 to \$125, the average now being probably about \$95. By careful management, this may be reduced somewhat, but it is best not to stint too much, as too great economy is likely to lessen the value of the course.

In the past, a few students have been obliged to earn money during the course and have worked at odd jobs about the University or on neighboring farms. This is never advisable unless absolutely necessary. It is much better to borrow the necessary money or to postpone the course of study until another year than thus to be handicapped during the limited time spent at the University. All the energies should be concentrated on the work of the course.

All the fees mentioned under each course must be paid to the Treasurer of the University (Morrill Hall) within five days after registration.

Students are liable for breakage due to carelessness on their part.

Infirmary fee. Every registered student at Ithaca is charged an Infirmary fee, payable at the beginning of each term. For the year, 1911-12, this fee will be \$2 a term. Students in the Winter Courses are required to pay the Infirmary fee for one term. In return for the Infirmary fee, any sick student is, on his physician's certificate, admitted to the Infirmary, or in the case of those contagious diseases which under present rules cannot be there cared for, to the Ithaca City Hospital, if receivable under its rules, and is given without further charge a bed in a ward, board, and ordinary nursing for a period not exceeding two weeks in any one academic year. Extra charges are made for private rooms, special foods, and special nurses. If a sick student who has not received two weeks service in the year is refused admittance to either the Infirmary or the City Hospital by reason of lack of accommodation, he is entitled to a refund of the fee.

Scholarships for Winter Course Students. At its 31st annual meeting, held at Cortland, February 4, 1904, the New York State Grange resolved to appropriate funds annually, to be given to members of the Order in the form of scholarships in any of the Winter Courses in Agriculture in Cornell University. The scholarships (now twelve in number) are each \$50 in cash, to be awarded to men and women who attain the highest standing on competitive examination. Awards are made each summer. Candidates should apply to the Master of the Pomona Grange in their home counties, or to the Deputy in counties that have no Pomona.

Mr. H. L. Beatty has offered for the year 1911-12, a similar scholarship of a value of \$75, "open to any farmer who resides in Bainbridge, N. Y., or to any boy over sixteen who shall have attended the Bainbridge High School for one full term".

Admission

The Winter Courses are business and occupational courses, not academic; hence, there are no examinations for admission. However, in order that the student may be able to make the best use of the instruction, it is necessary that he should have a good common school education. Winter Course students are sometimes seriously handicapped in their work by being deficient in arithmetic and in English. Those who are planning to take a Winter Course are advised to review these subjects before coming to Ithaca. Anyone who has graduated from the common schools of the State, or who has an eighth grade certificate, should be able to do the Winter Course work satisfactorily. When making application, candidates for admission should give a description of their school training and, if possible, should send a certificate or statement from the teacher of the school last attended.

All the courses are open to both men and women of at least seventeen years of age. Not a few women have taken the work with results satisfactory to themselves and to their instructors. The average age of the students in the course in General Agriculture has been about twenty-one years. The dairy students have on the average been somewhat older. There is no limit to the age above seventeen; some of the best Winter Course students have been mature men, owners of farms, or managers of dairy concerns and of poultry plants.

This circular contains application blanks for admission to the Winter Courses. These should be filled out and forwarded at once by any person that is planning, as yet even indefinitely, to attend any one of the Winter Courses. The filing of an application for admission does not constitute an obligation to attend any one of the courses, and applications may be withdrawn at any time.

On account of the limited accommodations in the Dairy Course and in the Poultry Course, all candidates for admission must, on the acceptance of their applications, deposit an advance fee of five dollars. This deposit is returnable on request at any time before November 1. In these courses, applicants for admission who are residents of New York State are given precedence.

Applicants for admission to the Winter Courses should, by way of preparation, read carefully some of the best books, bulletins, etc., on the subject to which their attention will be chiefly directed while at Cornell. The Supervisors of the Reading Courses will, on request, suggest appropriate books for this reading.

WINTER COURSES

Women who desire to pursue the Winter Course in Home Economics should correspond with Miss Martha Van Rensselaer, Ithaca, N. Y., in regard to rooms and accommodations.

Arrival at Ithaca. Students that desire to secure rooming and boarding places are invited to come directly to the College of Agriculture on their arrival in Ithaca. Instructors will be on duty at the headquarters of the several Winter Courses to assist all applicants in finding comfortable accommodations. It is desirable that all such arrangements should be completed before registration day.

Registration. On Tuesday, November 28, beginning at 8.00 a. m., all students must report for registration at the office of the Secretary to the College of Agriculture, Main Building, Room 122. After registering here and receiving study cards, the students will go at once to the headquarters of their particular Winter Courses, as follows: Course in General Agriculture, Main Building, Room 193 (first floor); course in Dairy Industry, Dairy Building, Room 102 (first floor); course in Poultry Husbandry, Dairy Building, Room 119 (first floor); course in Horticulture, Main Building, Room 202 (second floor); course in Home Economics, Main Building, Room 402 (fourth floor).

After the student has filled out and returned his study card showing the subjects for which he wishes to register, he may not change his registration in any respect except on the recommendation of the head of the Winter Course concerned and with the approval of the Secretary.

Methods of Instruction

Instruction in the Winter Courses is given by lectures, by such practical work in the various agricultural operations as can be conducted at this time of the year (laboratory practice), and sometimes by trips or excursions to points of special interest.

The lectures are given in large part by the regular professors and instructors in the College of Agriculture. These lectures are plain and practical, in the style of farmers' institute talks. As far as possible, collected material is used to illustrate the subjects. When this is impossible, lantern views are often used. A free discussion by the students of the subject under consideration is encouraged. Further opportunity for these general discussions is afforded in the meetings of the Winter Course clubs.

Other lectures are given to the students by successful practical men, in large part from New York State, who are directly engaged in

agriculture as a business. They present to the students the results of their experience and observation.

There may also be special lectures by various members of the University Faculty, not members of the Faculty of Agriculture. The Winter Course students are welcomed at the various addresses given by eminent men before the University in general.

Practical work is made a special feature in the Winter Courses. The student is expected to perform all the various operations as carefully as if he were working at home as a practical farmer. In the Courses in Dairy Industry and Poultry Husbandry, the instruction is largely practical, and the students have an opportunity of becoming familiar with all of the essential operations in these enterprises. In the courses in General Agriculture and Horticulture, there is necessarily a smaller amount of practical work; advantage, however, is taken of the greenhouses, barns, and laboratories to demonstrate to the students some of the operations which would normally be conducted in the summer season. Whenever possible, the aim is to make the practical work take up as large a part of the student's time as the lectures.

Excursions to neighboring points of special interest have been made a feature of the Course in Poultry Husbandry. They are also conducted in other courses whenever practicable.

"Hour" in the following schedules means one lecture of one hour each week for twelve weeks, or one period (of two hours and one-half) of laboratory or practice a week for twelve weeks.

Certificates

Certificates are granted to those who, in any one of the Winter Courses, complete at least fifteen hours, including all the required work, and who subsequently complete one year of satisfactory practical work on a farm or in a creamery, poultry establishment, or other agricultural enterprise.

The City and the University

Ithaca is situated in Tompkins County at the head of Cayuga Lake. It is a city of about fifteen thousand inhabitants. It is reached by the Lehigh Valley and the Delaware, Lackawanna, and Western Railroads, also by steamer on the lake in the summer. The

University stands on a plateau about four hundred feet above the lake. The officers of instruction and administration of Cornell University number 675. The campus and grounds cover 1095 acres.

The main buildings of the University are over thirty in number, providing quarters for the several colleges of the University. These are Arts and Sciences, Law, Medicine, Agriculture, Veterinary Medicine, Architecture, Civil Engineering, and Mechanical Engineering.

The New York State College of Agriculture at Cornell University is now occupying the new buildings erected by the State. These buildings are large and well equipped, and afford an attractive and comfortable home for the College.

Social and Religious Advantages

Every year the students in each of the several Winter Courses have formed clubs. These societies meet once a week and debate subjects of special interest, discuss various problems, sing college songs, and indulge in other forms of social entertainment. Every Winter Course student is urged to attend these meetings.

The Winter Course students are welcomed at the meetings of the Agricultural Association, the Horticulturists' Lazy Club, the Poultry Association, the Round-Up Club, and the other organizations of students in the College. The meetings of these societies are devoted to discussions of live agricultural subjects and to the promotion of a fraternal feeling among the students. On the first Thursday evening of each month the Director of the College meets the agricultural faculty and students in the "Agricultural Assembly." At this meeting the Director gives a talk on matters of especial importance to those interested in agriculture and country life, or a reading, which is followed by singing and social intercourse.

Each winter the students in the various Winter Courses compete for the Morrison Winter Course Trophy Cup. Last year the contest was a series of debates, as a result of which the cup was awarded for one year to the Winter Course in General Agriculture.

The Farmers' Week will be held this year in the week of Washington's birthday, Feb. 19 to 24, inclusive. At this convention, discussions are held on all the leading agricultural topics. All farmers of the State are invited to attend.

The Agricultural Experimenters' League meets at the University during Farmers' Week. It is designed to develop the spirit of

investigation and to promote a closer friendship among the farmers of the State. All students in the Winter Courses are eligible to membership in this League, and should attend the meeting. During this week, also, there is held the annual meeting of the Students' Association of the New York State College of Agriculture, an organization of present and former students for social purposes and to promote the interests of the College and of country-life affairs at large. Winter Course students have equal privileges with others in this Association.

Religious services, provided for by the Dean Sage Preachership Endowment, are conducted in Sage Chapel throughout the college year by eminent clergymen selected from the various religious denominations. These services are supplemented by the Cornell University Christian Association, a voluntary organization of students and professors formed for their own religious culture and the promotion of Christian living in the University. The Christian Association has its home in Barnes Hall; it has a permanent secretary and a carefully selected biblical library, also comfortable reading and recreation rooms. Courses in Bible study are conducted throughout the year and special courses are provided for the students in the Winter Courses.

There is in addition to the Young Men's Christian Association, a flourishing Young Women's Association, with quarters in Barnes Hall.

The students of the University are welcomed by the numerous churches in the city of Ithaca at all their services.

DESCRIPTION OF THE WINTER COURSES

I. GENERAL AGRICULTURE

Most of the young men who come for a Winter Course expect to engage in general farming or hope to secure positions as superintendents of farms on which diversified agriculture is practised. It is for these that the Course in General Agriculture is especially designed. The other courses meet the needs of those who plan to specialize.

On the other hand, the Course in General Agriculture can be taken with advantage also by those who plan to do special work in agriculture later. It thus gives an opportunity of laying a broad foundation of general knowledge as a basis for subsequent specialization. This course gives a general survey of agriculture in practically all its phases.

It is strongly advised that those who desire to pursue one of the special Winter Courses should first take the Course in General Agriculture and postpone to the following winter their special work.

Students register at 8.30 a. m., November 28, in Room 193, first floor of the Main Building, after registering with the Secretary (page 9).

Special Expenses

General fee	\$5.00
Work suit, about	1.50
Those who elect plant diseases add	2.50
Those who elect farm dairying, add laboratory deposit (part returnable)	5.00
Those who elect farm mechanics add	2.00
Those who elect plant breeding add50

For laboratory and other fees in the different courses, see the descriptions of those courses on the following pages.

Required Subjects

All students in the Course in General Agriculture are required to take four of the following five subjects:

1. Fertility of the Land. Two hours a week. Lectures, T Th, 12. Morse Hall, Lecture Room 2. Professor CAVANAUGH.

A study of soils from the chemical and the physical points of view, with discussions of fertilizers, manures, and the principles of plant growth.

2. Agronomy. Four hours a week. Lectures, M W F, 8. Auditorium. Practice: sec. A, M, 11-1; sec. B, W, 11-1; sec. C, F, 11-1; sec. D, S, 10.30-12.30. Agronomy Building 202. Professor STONE and ———.

A study of field crops and farm management. As much time as possible is devoted to the principles of soil management and the culture of particular crops, as corn, potatoes, wheat, and oats, and to pastures and forage.

3. Feeds and Feeding. Three hours a week. Lectures M W F, 9. Auditorium. Professor WING and Assistant Professor SAVAGE.

The principles and practice of compounding rations and of feeding farm animals. Students are required to take either course 3 (Feeds and Feeding) or course 4 (Breeds and Breeding); but those who take course 4 may not take Horticulture 5.

4. Breeds and Breeding. Three hours a week. Lectures, T Th, 10. Animal Husbandry Building 112. Practice: sec. A, M, 11-12.30; sec. B, Th, 8.30-

10; sec. C, F, 9-10.30; sec. D, F, 11-12.30; sec. E, S, 9-10.30. Animal Husbandry Pavilion. Professor WING and Assistant Professor HARPER.

The principles of breeding farm animals; the history of breeds; the adaptation of different breeds for certain purposes; the care of farm animals.

5. Horticulture. Three hours a week. Lectures, T Th S, 10. Goldwin Smith A. Professors CRAIG and WILSON.

The principles of fruit growing, vegetable gardening, and floriculture; the propagation of fruits, budding, and grafting; orchard tillage, fertilizers, pruning, and spraying; the harvesting, marketing, and storing of fruit. The planning and planting of the vegetable garden; fertilizers, tillage, and control of pests and diseases. Lectures covering the growing and marketing of flowers. Required of all students in General Agriculture except those electing course 4, Breeds and Breeding.

A series of special lectures will be given by various members of the University Faculty, and by prominent men from elsewhere who are authorities in agriculture and horticulture. Students in the Course in General Agriculture are required to attend these lectures.

In the Course in General Agriculture there are thus 12 hours a week of required work. Six hours of elective work may be chosen from the subjects described below. No student may take more than 18 hours of work, except by special permission, and 16 hours is as much as the average student can carry satisfactorily.

Elective Subjects

60. Commercial Fruit-Growing. Seven hours a week. Lectures, M T W Th F, 9. Main Building 292. Practice, W Th, 2-4.30. New Greenhouses. Mr. TENNY and Mr. ANTHONY.

For description of this course see p. 30.

61. Vegetable Culture. Five hours a week. Lectures, M W F, 9. Dairy Building 202. Practice, M, 10-1, and Th, 2-5. New Greenhouses. Mr. WORK.

A study of the growing and marketing of vegetables for home use and for the special and general market.

6. Rural Improvement. Hours to be announced. Professor FLEMING.

A course of six lectures, commencing after the Christmas recess, dealing with questions of rural improvement and intended to give the farm boy a general view of rural art together with specific hints for working out some of his home problems.

7. Farm Mechanics. Three hours a week. Lectures, T Th, 11. Auditorium. Practice: sec. A, Th, 2-4.30; sec. B, F, 2-4.30. Agronomy Building 31. Assistant Professor H. W. RILEY and Messrs. ROBB, WESTERVELT, and

A study of gasoline and steam engines, power transmission and shafting, pumps, hydraulic rams, piping, and soldering. Laboratory fee \$2.00. The number of students will be limited.

8. Farm Dairying. One lecture a week and two afternoons of practice. Lectures, M, 10. Dairy Building 222. Practice: sec. A, M, 2-6, Dairy E 122, and T, 8-10, Dairy 232; sec. B, W, 2-6, Dairy E 122, and Th, 8-10, Dairy 232; sec. C, Th, 2-6, Dairy E 122, and T or Th, 8-10, Dairy 232. Mr. GUTHRIE.

The care of milk, butter making, and milk testing. Those who elect this course deposit an additional laboratory fee of \$5.00 to cover breakage, and rental and laundering of white suits. Part of the fee is returnable.

3 and 4. Animal Husbandry. The student who desires as much work as possible in animal husbandry may take both 3 and 4 in that subject, as described on p. 13.

9. Farm Poultry. Lectures and practice, two hours a week. Th F, 4.45-5.45. Agronomy Building 192. Professor RICE, Assistant Professor ROGERS, Miss NIXON, Mr. KRUM, and others.

A discussion of the domestic breeds of poultry; hatching and rearing; the principles of feeding and management; the building of poultry structures.

10. Economic Entomology. Two hours a week. Lectures, W F, 10. Main Building 392. Assistant Professor HERRICK.

A study of insect pests of farm, orchard, and garden, and of their control.

11. Plant Diseases. Three hours a week. Lectures, T, 8. Agronomy Building 152. Practice: sec. A, M, 10-12 and 2-4.30; sec. B, T, 2-4.30 and W, 11-1. Agronomy Building 302. Mr. BARRUS and Mr. ———.

This course is devoted to the consideration of some of the common bacterial and fungous diseases of plants. It includes a study of the causal organisms, their relation to the host plants, and their control. Laboratory fee, \$2.50.

12. Diseases of Dairy Cattle, and Veterinary Hygiene. One hour a week. Lectures, S, 8. Dairy Building 222. Dr. UDALL and others.

For description of this course see p. 22.

13. Farm Structures. Lectures, demonstrations, and practice in preparing working plans. Two hours a week. Lectures, W F, 10. Agronomy Building 192. Mr. ———.

A discussion of the principles involved in the construction of farm barns, stables, silos, and other buildings; fencing, farm road-making, and the use of concrete on the farm.

14. Extension Work. Lectures and discussions. One hour a week. W or S, 12. Auditorium. Professor TUCK and Mr. WHEELER.

A study of the problems of university extension in agriculture. Practice in the oral and written presentation of topics in agriculture, with criticism and individual conferences on the technique of public speech. Designed to acquaint students with parliamentary practice, to encourage interest in public affairs, and to train for effective self-expression in public. Open to all students in the Winter Courses.

15. Plant Breeding. Lectures and discussions. One hour a week, F, 11. Auditorium. Assistant Professor GILBERT.

A discussion of plant improvement with special reference to farm and horticultural crops. Methods of selection and hybridization as means of improvement will be carefully considered. Fee, \$0.50.

16. Farm Forestry. Lectures, S, 8. the first six weeks of the term. On two Saturday afternoons, there will be field trips, if the weather permits. Assistant Professor ———.

A course of six lectures discussing the care of the woodlot, forest planting and sowing, the cutting of timber, and the protection of the wood lot.

For further information regarding instruction in General Agriculture address J. L. STONE, Professor of Farm Practice.

II. DAIRY INDUSTRY

This course is intended especially for persons who make a business of manufacturing butter or cheese or of handling milk for the market. Anyone wishing instruction in farm dairying should consult the description of that course in the announcement of the Winter Course in General Agriculture, No. 8 above.

Students will be received in this course between 8.30 a. m. and 12 m., or between 2 and 5 p. m., Tuesday, November 28, in Room 102, first floor of the Dairy Building. They should report at once after registering with the Secretary (p. 9). At 5 p. m., on November 28, there will be a meeting of students and teachers in the lecture room of the Dairy Building.

Instruction begins at 8 a. m., Wednesday, November 29. Instruction ends Friday afternoon, February 23, 1912.

General fee (partly to pay for materials used)	\$15.00
Laboratory deposit (part returnable) to cover rental of suits, laundry, and breakage	6.00
Books, about	5.00
One suit blue overalls, about	1.00

Five dollars of the general fee must be paid as soon as the application is accepted; see p. 8. Names of students will be entered in the order of these payments.

Books, notebooks, and blue overall suits can be purchased at reasonable prices in Ithaca. The white suits and rubber aprons for use in the creamery and laboratory are furnished by the department and rented to students as stated above.

Methods of Instruction

Instruction, though partly by lectures and recitations, is in large part by actual practice in the different kinds of dairy work. The class assembles daily at 8 a. m., and the class work continues two hours. The students are then assigned by sections or squads to different kinds of practice for the remainder of the day. These assignments are so made that in the course of the term each student has a due amount of work in the different departments.

NEW YORK STATE COLLEGE OF AGRICULTURE AT CORNELL UNIVERSITY

I. WINTER COURSE IN GENERAL AGRICULTURE

APPLICATION FOR ADMISSION

Name of applicant Date of birth

P. O. County State

Name and address of parent or guardian, or person to be notified in case of serious illness or accident

PREVIOUS SCHOOL TRAINING

Name of school last attended No. of terms in attendance

AMOUNT OF WORK DONE IN THE COMMON BRANCHES

REFERENCES: *—I am personally acquainted with the above applicant and believe to be of good moral character, industrious, studious, and physically and otherwise capable.

Name Name

Position Position

Address Address

*References: two are necessary and should be preferably by your teacher, pastor, or some public official.
This blank must not be used for enrollment in the *Reading Course*. A card for that purpose will be sent on application.

This application should be mailed to Professor J. L. Stone, Cornell University, Ithaca, New York

NEW YORK STATE COLLEGE OF AGRICULTURE AT CORNELL UNIVERSITY

II. WINTER COURSE IN DAIRY INDUSTRY

APPLICATION FOR ADMISSION

Name of applicant..... Date of birth.....
P. O..... County..... State.....
Name and address of parent or guardian, or person to be notified in case of serious illness or accident.....
.....

PREVIOUS SCHOOL TRAINING

Name of school last attended..... No. of terms in attendance.....

AMOUNT OF WORK DONE IN THE COMMON BRANCHES

.....
Give experience, if any, in dairy work.....

REFERENCES: *—I am personally acquainted with the above applicant and believe..... to be of good moral character, industrious, studious, and physically and otherwise capable.

Name.....	Name.....
Position.....	Position.....
Address.....	Address.....

*References: two are necessary and should be preferably by your teacher, pastor, or some public official.
This blank must not be used for enrollment in the *Reading Course*. A card for that purpose will be sent on application.

This application should be mailed to Professor W. A. Stocking, jr., Cornell University, Ithaca, New York

NEW YORK STATE COLLEGE OF AGRICULTURE AT CORNELL UNIVERSITY

III. WINTER COURSE IN POULTRY HUSBANDRY

APPLICATION FOR ADMISSION

Name of applicant..... Date of birth.....

P. O.....County.....State.....

Name and address of parent or guardian, or person to be notified in case of serious illness or accident.....

PREVIOUS SCHOOL TRAINING

Name of school last attended.....No. of terms in attendance.....

AMOUNT OF WORK DONE IN THE COMMON BRANCHES

REFERENCES: *—I am personally acquainted with the above applicant and believe.....to be of good moral character, industrious, studious, and physically and otherwise capable.

Name.....Name.....

Position.....Position.....

Address.....Address.....

*References: two are necessary and should be preferably by your teacher, pastor, or some public official.
This blank must not be used for enrollment in the *Reading Course*. A card for that purpose will be sent on application.

This application should be mailed to Professor James E. Rice, Cornell University, Ithaca, New York

NEW YORK STATE COLLEGE OF AGRICULTURE AT CORNELL UNIVERSITY

IV. WINTER COURSE IN HORTICULTURE

APPLICATION FOR ADMISSION

Name of applicant Date of birth

P. O. County State

Name and address of parent or guardian, or person to be notified in case of serious illness or accident.

PREVIOUS SCHOOL TRAINING

Name of school last attended No. of terms in attendance

AMOUNT OF WORK DONE IN THE COMMON BRANCHES

REFERENCES: *—I am personally acquainted with the above applicant and believe to be of good moral character, industrious, studious, and physically and otherwise capable.

Name Name

Position Position

Address Address

*References: two are necessary and should be preferably by your teacher, pastor, or some public official.
This blank must not be used for enrollment in the *Reading Course*. A card for that purpose will be sent on application.

This application should be mailed to Professor John Craig, Cornell University, Ithaca, New York

NEW YORK STATE COLLEGE OF AGRICULTURE AT CORNELL UNIVERSITY
V. WINTER COURSE IN HOME ECONOMICS

APPLICATION FOR ADMISSION

Name of applicant..... Date of birth.....
P. O..... County..... State.....
Name and address of parent or guardian, or person to be notified in case of serious illness or accident.....
.....

PREVIOUS SCHOOL TRAINING

Name of school last attended..... No. of terms in attendance.....

AMOUNT OF WORK DONE IN THE COMMON BRANCHES

.....
.....

REFERENCES: *—I am personally acquainted with the above applicant and believe..... to be of good
moral character, industrious, studious, and physically and otherwise capable.

Name.....	Name.....
Position.....	Position.....
Address.....	Address.....

*References: two are necessary and should be preferably by your teacher, pastor, or some public official.
This blank must not be used for enrollment in the *Reading Course*. A card for that purpose will be sent on application.

This application should be mailed to Department of Home Economics, Cornell University, Ithaca, New York

Lectures and Recitations

These are given in one hour periods. Frequently they are replaced by examinations; often also a part of the hour is occupied by informal discussions of former lectures or of topics previously assigned for study. The subjects of the required lecture courses and the approximate number of hours given to each are as follows.

20. Milk and its Products. Five hours a week. Lectures, M T W Th F, 9. Dairy Building 222. Professor STOCKING, Assistant Professor ROSS, and Messrs. AYRES, DUTTON, and FISK.

This course includes a full description of the secretion or formation of milk, its nature and composition, the methods of testing it, its care and preservation, the manufacture of different dairy products, conditions affecting their quality, method of marketing, the business side of dairying, the construction of dairy buildings, and the legal requirements applying to dairy products. Special attention is given to dairy bacteriology and dairy sanitation. The lectures are supplemented by references to dairy literature, books, current periodicals, and experiment station publications.

3. Animal Husbandry, Feeds and Feeding. Three hours a week. Lectures, W M F, 8. Dairy Building 222. Professor WING and Assistant Professor SAVAGE.

This course deals with the principles and practice of compounding and feeding the most economical rations.

21. Dairy Mechanics. One hour a week. Lectures, S, 9. Dairy Building 222. Mr. AYRES.

The care of the boiler and engine, construction of separators, installation of shafts and pulleys, pipe-fitting, belt-lacing, soldering, etc.

22. Dairy Chemistry. Two hours a week, the first three weeks of the term. Lectures, T Th, 8. Dairy Building 222. Mr. TROY.

The elementary principles of chemistry are explained, that the student may better understand the composition of dairy products and the chemical changes connected with and influencing dairy operations.

23. General Agriculture. Two hours a week, the last nine weeks of the term. Lectures, T Th, 8. Dairy Building 222. Professors STONE, CAVANAUGH, WARREN, WEBBER, and others.

In this course several brief lectures are given on subjects intimately related with dairy industry, such as farm manures, commercial fertilizers, and the improvement of the land by judicious cropping.

12. Diseases of Dairy Cattle, and Veterinary Hygiene. One hour a week. Lectures, S, 8. Dairy Building 222. Dr. UDALL, and special lectures by Director MOORE and Dr. WILLIAMS.

This course includes a discussion of the most common diseases of dairy cattle, their prevention and cure, the ventilation of stables, and general questions of animal hygiene

Practice

All class work is supplemented by laboratory or practical exercises as follows.

30. Butter. Hours as assigned. Mr. AYRES.

The creamery has most of the apparatus found in a well-equipped commercial plant. The milk is received, weighed, sampled, and separated, and the entire process of ripening cream and churning carried through in the most thorough manner. Special attention is given to pasteurization and the use of starters. Every step of the work is performed by students under the close supervision of the instructor.

31. Cheese. Hours as assigned. Mr. DUTTON and Mr. FISK.

The cheese room is equipped with all necessary apparatus, such as is used in large factories for making cheddar cheese. All the work is performed by students and every step is carefully observed and reported by them on blank forms provided for the purpose. Special attention is given to judging the quality of milk for making cheese and to judging the cheese when ready for market.

32. Fancy Cheese. Hours as assigned. Mr. FISK.

A study of a few varieties of fancy cheese.

33. Market Milk. Hours as assigned. Assistant Professor Ross.

The market-milk rooms are equipped with apparatus such as is found in commercial plants. Students are given practice in preparing and bottling milk and cream for retail trade. Quick and accurate methods of standardizing milk and cream are taught.

34. Testing. Hours as assigned. Mr. TROY.

The testing laboratory is fitted with all appliances necessary for making the usual quick tests of milk and its products, including lactometers and a variety of Babcock testers. Each student is expected to become familiar with the Babcock method of determining fat, the calculation of total solids, and the more simple tests for preservatives and adulterations.

35. Dairy Mechanics. Hours as assigned. Mr. AYRES.

The student has an opportunity to learn the construction of the boiler and engine, to care for them, to take separators entirely apart and to set them up again, to repair pipes, to solder, to lace belts, etc.

36. Arithmetic and Bookkeeping. Hours as assigned. Assistant Professor Ross.

A thorough drill is provided in simple problems, such as are constantly arising in all kinds of dairy work, and in the keeping of factory accounts.

37. Dairy Bacteriology. Hours as assigned. Professor STOCKING and Mr. COOK.

Elementary laboratory work will be given to show the nature of bacteria and their relation to the handling of milk and dairy products.

Certificate of Proficiency

Upon the successful completion of the Course in Dairy Industry, a student may become an applicant for a Certificate of Proficiency under the following general terms and conditions:

A person who has been one full term in attendance upon the Course and has satisfactorily passed all of the examinations required, may become a candidate for a Certificate of Proficiency in the kind of work in which he is engaged.

Such a candidate must spend one full year or more as manager or first man, in work at an approved creamery, cheese factory, market-milk plant, or farm dairy. He must report regularly, upon blanks furnished for the purpose, such information about his work and products as may be required, and each month must send a sample of his dairy product (milk, cream, butter, or cheese) to the monthly judging of dairy products. He must have his work in readiness for inspection at any time.

On the satisfactory completion of these requirements, a certificate will be granted. Under certain conditions more than one year's work may be required.

Positions

The College does not promise to find positions for students registered in this course, but it has opportunity to recommend students for a large number of positions. Thus far it has been difficult to find students for all the places that the College has been asked to fill.

Previous experience in a well-conducted dairy is strongly advised for those who come to the College expecting to be recommended for positions. Many students who have taken the Course in Dairy Industry have secured an increase in their salary during the following season sufficient to pay the entire cost of the course. Such results, though not guaranteed, are not uncommon; they prove that there are excellent opportunities in dairy industry.

A SPECIAL ONE-WEEK COURSE FOR MANAGERS OF FACTORIES AND CREAMERIES

**Beginning Thursday morning, Feb. 29, 1912, and closing
Wednesday night, March 6, 1912**

This course is intended for managers of creameries and factories who cannot be absent from their business for any considerable time, but who wish to come to the College to get the latest knowledge in their special work. All the regular branches of cheese making and butter making will be taught and special attention will be given to the use of the moisture and Babcock tests, creamery over-run, construction of factory and creamery buildings, drainage and water supply, commercial starters, relation of bacteria to dairy products, market milk, dairy inspection, judging dairy products, keeping factory accounts, etc.

Requirements for Admission; Expenses

The only requirement for admission to this one-week course is that the applicant shall have had at least one year of experience as manager of a factory or creamery.

The only fee is five dollars, payable at registration. This covers the use of white suits, apparatus, and materials required in the laboratory and practice work.

For cost of board and other expenses, see p. 6.

For further information regarding instruction in dairy industry, address W. A. STOCKING, JR., Professor of Dairy Industry.

III. POULTRY HUSBANDRY

The Winter Course in Poultry Husbandry is one of the means by which the College of Agriculture endeavors to meet the needs of the young farmers of the State. It is intended also to supply the large and growing demand for trained poultrymen to take charge of poultry plants owned by others. Although it is manifestly impossible to give, in twelve weeks, full preparation for so exacting a business as poultry keeping, this course will give the student a good start in the right direction, enable him to avoid many mistakes, give him facts and principles of value gleaned from the lifelong experience, study, and observation of others, and fill him with enthusiasm for his life work and a determination to make the best use of his natural abilities and opportunities.

After registering with the Secretary (p. 9.), students should report at once at the office of the Department in the Dairy Building (Room 119, first floor), where at 8.30 a. m., and 2 p. m., Tuesday, November 28, 1911, they will receive their assignments. A meeting of all students in poultry husbandry with the staff of the Department will be held at 5 p. m., on November 28. Instruction will begin at 8 a. m., Wednesday, November 29, and will end Friday night, February 23, 1912.

Special Expenses

Laboratory fee (to cover part of cost of materials used)	\$7.50
Laboratory deposit (part returnable)	2.50
Books (to be retained by the student)	5.00
Suit of work clothes (to be purchased in Ithaca)	1.25

The estimated expenses, aside from those given above, are: board, about \$50.00; room (two rooming together), about \$18.00; excursions, about \$10.00.

Required Subjects

37. General Poultry Lectures. Lectures, textbook, and recitation, six hours a week. M T W Th F S, 11. Agronomy Building 192. Professor RICE and Assistant Professor ROGERS.

These lectures include discussions of subjects of special interest to poultrymen: opportunities in poultry husbandry; advantages and disadvantages of various kinds of poultry keeping; laying out and estimating the cost of poultry plants; poultry-farm management; history and characteristics of breeds; feeding for egg production and for flesh; incubating; brooding; feeding chickens; caponizing; mating and breeding; marketing poultry products; planning and building poultry houses.

37a and b. Special Resident and Non-Resident Lecturers. One hour a week. Lectures, S, 9. Place to be announced.

The Poultry Department is fortunate in being able, through the courtesy of the Cornell Medical College and the New York State Veterinary College, to avail itself of the expert services of several eminent teachers. Their lectures, together with those of several other experts from other departments in the College of Agriculture and of experienced poultrymen who have had marked success in some special line of poultry husbandry, furnish a course of one lecture a week during the entire term.

38. Laboratory Practice. Three afternoons a week. Sec. A, M W F, 2-4.30; sec. B, T Th S, 2-4.30. Poultry Plant or Dairy Building 119. Professor RICE, Assistant Professor ROGERS, and Mr. —.

This course consists in planning and studying poultry buildings and colony houses; laying out poultry plants; making egg crates, shipping coops, and trap nests; selecting fowls for mating; killing, dressing, packing, and marketing poultry; caponizing; study of the egg; anatomy of poultry; study of poultry feeds; fitting fowls for exhibition.

39. Feeding and Management Practice. Practice, one and one-half hours each day, morning, noon, and afternoon, for six weeks. Poultry Plant. Mr. KRUM and Mr. —.

A flock of 25 or 30 fowls is assigned to each student, who performs all of the daily operations in caring for it, keeping accurate accounts of the cost of food, gain or loss in weight, temperature of houses, time required to do the work, and the profit or loss. Practice is also given in crate fattening. In addition to this, the student takes his turn in doing all of the different kinds of work about the poultry plant, including the handling of gasoline engines, power bone-cutters, and cleaning.

40. Incubator and Brooder Practice. Practice, one and one-half hours each day, morning, noon, and afternoon, for six weeks. Poultry Plant. Mr. — and Mr. —.

The student operates an incubator and gives a complete record of his work and of the results. At the conclusion of each hatch, the results of the hatch from each of the incubators are tabulated so that the various machines can be compared, and the fertility, the hatching power of the eggs, and the vigor of the chicks from the different pens, can be observed.

The season of the year and our lack of facilities make it impracticable to give systematic practice in brooding chickens. Whenever the student cannot be

assigned a brooder with chickens, demonstration work is given. The brooder work includes the operation of the New York State gasoline-heated colony house, where 200 to 300 chickens are kept in one flock; also a pipe-system brooder house and several types of outdoor brooders.

42. Systematic Reading. Two hours reading each week is required. Sec. A, T, 9-11; sec. B, Th, 9-11. Dairy Building 202. Miss NIXON.

This reading is intended to supplement the lectures. One forenoon each week is set apart in which the students can devote themselves to special reading along the lines in which they are interested.

43. Drawing. Two hours a week. Sec. A, W, 9-11; sec. B, F, 9-11. Dairy Building 119. Assistant Professor ROGERS and Mr. BENJAMIN.

Drawing plans of poultry houses, incubators, and brooders.

Excursions. One or more excursions will be taken to poultry farms near by and to a large poultry show where student contests will probably be held. These excursions are not required, but every student is urged to take them.

Observations. The students have the added advantage, while taking the Course in Poultry Husbandry, of observing the results of the large number of investigations with poultry which are being conducted at the University poultry plant. These include a comparison of types of houses, methods of feeding, breeding, trap nesting, incubating, brooding, etc.

Examinations

Examinations, both written and oral, are held frequently during the term. Drawings are made of poultry buildings, incubators, trap nests, etc. Several themes are written on poultry topics. Written reports of observations made during excursions and of the daily practice work are required of each student. On these and on the student's general conduct, his sincerity, accuracy, honesty, promptness, and ability to work, is based his final standing.

Prizes

Through the kindness of former students in poultry husbandry and friends of the College, a long list of prizes is provided each year for students in this course. They are awarded for excellence in some phase of the work, as judging, scoring, picking, fitting, drawing poultry houses and farm plans, class record, etc. These prizes have created valuable friendly competition among the students.

Certificate of Proficiency

Upon the completion of the required course, fifteen hours, a student in poultry husbandry may become an applicant for a certificate signed by the Director of the College and the Professor of Poultry Husbandry, under the following terms and conditions:

A person who has completed one full term in attendance on the Course in Poultry Husbandry and has satisfactorily passed all of the examinations required, may become a candidate for a Certificate in Poultry Husbandry. No student who has failed to complete the full twelve weeks' attendance is eligible for a certificate.

Such a candidate must spend one full year in successful work at an approved poultry plant. He must report regularly, upon blanks furnished for the purpose, such information about his work as may be required, and he must hold his plant in readiness for inspection at any time.

Upon satisfactory completion of these requirements, a certificate will be granted. Under certain conditions more than one year of practical work may be required.

Positions

Although the College of Agriculture does not guarantee to secure positions for students who complete the Course in Poultry Husbandry, every effort is made to help capable and worthy students to secure places of responsibility best suited to their respective qualifications. Usually the demand for young men who have completed the course has been greater than the supply. This is particularly true of the better positions, in which managers or superintendents are wanted to take charge of poultry farms. The salaries obtained by students, after completing the course, range from \$25 to \$75 a month with board and room, the average being about \$40. Students who have not previously had farm or poultry experience cannot, as a rule, be recommended to positions of responsibility until they have spent a season on an approved poultry farm.

For further information regarding the Course in Poultry Husbandry, address JAMES E. RICE, Professor of Poultry Husbandry.

IV. HORTICULTURE

Each year since the establishment of the Winter Courses, the demand for special instruction in fruit growing and gardening has

increased. The opportunities for profitable fruit raising and vegetable growing on the comparatively cheap lands of the East and within easy reach of the great markets, are attracting capital and energy. It is in response to this general demand and these opportune conditions that a Winter Course in Horticulture is offered. The studies included in this course are intended to help the fruit grower and gardener to manage his orchards and gardens better than in the past; to fit those who have had some experience for positions of responsibility; to give the beginner the salient principles and acquaint him as far as possible with the best practices of commercial and amateur fruit growers and gardeners the country over.

An effort is being made this year to meet the demand for special instruction in the different divisions of horticulture, as in fruit growing, vegetable growing, flower growing. To this end parallel courses have been arranged in each of these divisions. A student may specialize in fruit growing, or, if particularly interested in vegetable growing, may devote his time to the study of vegetable culture and related topics. There has come to be also a demand for special instruction in floriculture; and to meet this, provision has been made whereby a student may concentrate on the practical and commercial aspects of flower growing. These three branches will constitute the horticultural group in the Winter Courses.

Equipment

Practically the same facilities are available to the Winter Course student as to the student in the regular course. The well-selected library, and the equipment of the forcing houses, including plants, work rooms, spray pumps, and implements, are used in conducting the work of instruction.

The course is made up of lectures, recitations, and practice. Special stress is laid on the practice.

Registration

All students register in Room 202, second floor of Main Building, at 8.30 a. m., November 28, 1911. They should report at once after registering with the Secretary (page 9).

Special Expenses

General laboratory fee.....	\$7.50
Books, about	5.00

I. FRUIT GROWING

All students in this course, except those who have already satisfactorily completed the Winter Course in General Agriculture, are required to take the subjects that follow. Those who have completed the Winter Course in General Agriculture will not be required to take again subjects in which they have already passed. They should consult the professor in charge concerning substitutes for any of the subjects.

Required Subjects

60. Commercial Fruit Growing. Seven hours a week. Lectures, M T W Th F, 9. Main Building 292. Practice, W Th, 2-4.30. New Greenhouses. Mr. TENNY and Mr. ANTHONY.

A study of the methods of propagation; the principles of budding and grafting; soils, varieties, and planting plans for the orchard; cultivation, cover crops, fertilization, spraying, and pruning, as practiced in orchard management; the picking, grading, packing, storing, and marketing of fruit. This course considers the apple, pear, quince, cherry, plum, apricot, peach, grape, raspberry, blackberry, dewberry, currant, gooseberry, and strawberry.

11. Plant Diseases. Three hours a week. Lectures, T, 8. Agronomy Building 152. Practice: sec. A, M, 10-12 and 2-4.30; sec. B, T, 2-4.30 and W, 11-1. Agronomy Building 302. Mr. BARRUS and Mr. ———.

For description of this course see p 15.

10. Economic Entomology. Two hours a week. Lectures, W F 10. Main Building 392. Assistant Professor HERRICK.

For description of this course see p. 15.

1. Fertility of the Land. Two hours a week. Lectures, T Th, 12. Morse Hall Lecture Room 2. Professor CAVANAUGH.

For description of this course see p. 13.

62. Principles of Plant Culture. Two hours a week. Lectures, F, 12. Main Building 292. Practice, S, 10.30-1. New Greenhouses. Professor CRAIG and Mr. FROST.

This course is designed to give the student an elementary understanding of the structure and function of plants, with special reference to growth and reproduction.

II. VEGETABLE CULTURE

The purpose of this course is to qualify the student to engage in practical market gardening and trucking. He will devote most of his time to a study of vegetable culture from the standpoint of the market gardener as well as of the producer of special crops, as cabbage, celery, and lettuce, at a considerable distance from the market. The opportunities in New York and through the East generally for developing trucking enterprises are very attractive. The muck lands

New York and adjoining states are being developed. Special

crops adapted to these conditions are being studied, and it is in response to the demand for information in these fields that this special opportunity for instruction is provided in the Winter Courses.

Required Subjects

61. Vegetable Culture. Five hours a week. Lectures, M W F, 9. Dairy Building 202. Practice, M, 10-11, and Th, 2-5. New Greenhouses. Mr. WORK and Mr. ———.

A study of the growing and marketing of vegetables for home use, and for the special and general market.

62. Principles of Plant Culture. See p. 30.

1. Fertility of the Land. See p. 13.

10. Economic Entomology. See p. 15.

11. Plant Diseases. See p. 15.

Elective Subjects

63. Horticultural Reading. Two hours a week. F, 2-4. Main Building 232. Mr. ———.

Assignment of topics for abstracts and reports in standard works, bulletins, and current periodicals.

64. Floriculture and Greenhouse Practice. Five hours a week. Lectures, T Th S, 11. Dairy Building 202. Practice, Th S, 8-11. New Greenhouses. Assistant Professor BEAL and Mr. COSH.

For description of this course see p. 32.

14. Extension Work. Lectures and discussions, one hour a week. W or S, 12. Auditorium. Professor TUCK and Mr. WHEELER.

For description of this course see p. 15.

15. Plant Breeding. Lectures and discussions, one hour a week, F, 11. Auditorium. Assistant Professor GILBERT.

For description of this course see p. 15.

16. Farm Forestry. Lectures, S, 8, the first six weeks of the term. Assistant Professor ———.

For description of this course see p. 15.

III. FLOWER GROWING

The floricultural interests of New York are greater than those of any other state in the union. The demand for high-class floral products is increasing each year. The demand for information on the growing of these crops is naturally keeping pace with their development. The amateur and professional alike are seeking instruction in the latest and most approved methods. Floriculture at Cornell is being extended as rapidly as possible to meet these conditions. To that end special opportunities will be provided in the winter of 1911-12.

Required Subjects

64. Floriculture and Greenhouse Practice. Five hours a week. Lectures, T Th S, 11. Dairy Building 202. Practice, Th S, 8-11. New Greenhouses. Assistant Professor BEAL and Mr. COSH.

A study of the growing and marketing of greenhouse crops. Designed to familiarize the student with the ordinary greenhouse operations.

- 1. **Fertility of the Land.** See p. 13.
- 10. **Economic Entomology.** See p. 15.
- 11. **Plant Diseases.** See p. 15.

Elective Subjects

- 63. **Horticultural Reading.** See p. 31.
- 5. **Horticulture.** See p. 14.
- 14. **Extension Work.** See p. 15.
- 15. **Plant Breeding.** See p. 15.
- 16. **Farm Forestry.** See p. 15.

Prizes

Attention is called to the fruit-judging contest at Rochester under the auspices of the Western New York Horticultural Society. The following prizes were offered last year by the society: first prize, ten dollars; second prize, five dollars. (See Report of the Western New York Horticultural Society.)

Certificates

These are available to those who satisfactorily complete the required courses, as previously outlined, and who subsequently spend one full summer season in active work on a fruit farm. A statement of the season's work, approved by the proprietor of the establishment and satisfactory to the Professor of Horticulture, is required.

Positions

The Department of Horticulture does not promise to find positions for students in the Winter Course in Horticulture. The Department takes pleasure, however, in recommending its students for positions of responsibility on the following conditions: (1) the student must be of good moral character; (2) his previous record must be good; (3) his work in the Winter Course must be satisfactory; (4) his college courses must be supplemented by practical experience.

Those who desire additional information should apply to JOHN CRAIG, Professor of Horticulture.

V. HOME ECONOMICS

A Winter Course in Home Economics has been established in the New York State College of Agriculture, the main object of which is to furnish scientific training in the subjects pertaining to the home.

Special attention will be given to household sanitation, the selection and preparation of foods, problems of nutrition, house construction and decoration, household management, and sewing. The instruction is of interest to both men and women in so far as both are concerned with the problems of the right maintenance of the home. The aim of the course is to increase efficiency in household administration, to give the breadth of view and interest which come with intelligent labor, to teach not only how to do the work, but also why it should be done.

For three years past, some of the students in the course have been women who found it possible to accompany another member of the family who had come to attend one of the other Winter Courses. Some have combined with the Course in Home Economics instruction in another of the Winter Courses.

In order to keep a proper social balance in a community, farm girls should be given social and educational opportunities equal to those given the boys. Their household problems are as scientific as the outside problems of the farm. The farm home rises no higher than its women; hence, one of the Winter Courses offered at the College is intended to prepare women for their task in life. The equipment for instruction in this course is the same as that for the longer courses in home economics. A well-equipped laboratory is provided for practical instruction in foods. Library privileges are provided.

Persons over seventeen years of age are admitted to the Winter Course in Home Economics. No entrance examinations are required.

Registration is at 10 a. m., November 28, in Room 402, fourth floor of the Main Building. Students must first present themselves for registration at the office of the Secretary, (page 9).

Special Expenses

A food laboratory fee of \$7.50 is required to cover the cost of materials used. Those taking the Course in Domestic Art will be charged an additional fee of \$1.00. From \$3 to \$5 should be allowed for the purchase of books and of a thermometer.

Required Subjects

1. **Foods.** Lectures, four hours a week, and two three-hour laboratory periods a week. Lectures, M, 11 and 12, T Th, 9. Main Building 405. Practice: sec. A. T Th, 10-1; sec. B, Th, 2-5, S, 9-12, Main Building 492. Miss Rose, Miss Browning, and Miss Betts.

This course will include a study of food composition, food values, methods of selection, preparation, and preservation of food materials, principles of nutrition, dietaries, care and feeding of children. Laboratory work will be given for application of the principles and will include practice in preparation of food and in serving.

2. **Household Sanitation.** Four hours a week, first half of term. Lectures, M W, 9, W F, 10. Main Building 405. Miss VAN RENSSELAER AND MRS. HARRINGTON.

The lectures in this course include a discussion of the sanitary conditions of the house and site; conditions for health and for care of sick; the relation of bacteriology to the household.

3. **Household Management.** Four hours a week, second half of term. Lectures, M W, 9, W F, 10. Main Building 405. Miss VAN RENSSELAER.

This course includes a study of the family income, cost of living, household accounts, problems of domestic service, methods of housekeeping, equipment, marketing.

4. **House Planning and Decoration.** One hour a week. Lectures, F, 9. Agronomy Building 192. Mrs. YOUNG.

An elementary course for the developing of economic house plans in accordance with architectural principles. Besides the work of drawing plans, the course includes discussions of the building site, building materials, elements of construction, laying out of the grounds, and criticisms of interior design. The lectures of this course will apply principles of color and design to questions of interior decoration and furnishing. Students experiment with color combinations for decorative schemes, and with textile combinations for curtain-stuffs, wearing apparel, etc.

5. **Sewing and Drafting.** Practice, Th, 2-5, S, 9-12. Fourth floor hallway, Main Building.

This course includes instruction in sewing, cutting, and fitting garments.

Elective Subjects

In addition to the courses outlined in home economics, opportunities are open to women to receive instruction in dairying, poultry husbandry, gardening, and extension work. Practical instruction may thus be had in milk and its products; feeding, care, and marketing of eggs and fowls; diseases of fowls; commercial fruit growing, vegetable culture, floriculture, and ornamental gardening; public speaking. Women enter the regular classes in these subjects; but if a sufficient number desires work in home dairying a special class or section may be organized.

Certificates

At the close of the Winter Course, certificates are granted to those students who have satisfactorily completed the required work.

Correspondence regarding the Course in Home Economics should be addressed to DEPARTMENT OF HOME ECONOMICS, Ithaca, N. Y.

OTHER WORK OF THE COLLEGE OF AGRICULTURE

In addition to offering the Winter Courses, the New York State College of Agriculture at Cornell University is endeavoring to serve the agricultural interests of the State by the following and by other means:

The Four-Year Course in Agriculture.—This course is of equal academic rank with other courses in the University. It offers a thorough theoretical and practical training in agricultural and country-life subjects. The equivalent of a high school training is necessary for admission. A program will be sent on application to the Secretary, College of Agriculture.

Course in Rural Art, comprising the junior and senior years in the four-year course, providing instruction in landscape gardening and related subjects.

Course in Home Economics for women, comprising the last two years of the four-year course.

Special Work in Agriculture.—Special students take, as far as they are qualified to pursue them, whatever studies will be most valuable in the various departments. This opportunity to pursue special work is provided especially for those who wish to fit themselves for practical farming but cannot take a four-year course. About two years can be spent profitably in this work. In the admission of special students, each case is judged on its own merits. Persons desiring to enter as special students must be at least eighteen years of age (after 1911-12, twenty-one years of age), and must submit a full statement of school and other experience, together with references. No non-resident of New York State under the age of twenty-three is admitted as a special student unless he can meet in full the requirements for entrance to the regular course.

Special Course in Nature-Study.—A two years course for those who desire to prepare themselves to teach elementary agriculture and nature study. Open to teachers or to students in the University who are preparing to teach.

Summer School in Agriculture.—A six weeks course for the training of persons who desire to teach agriculture, including nature study and home economics. The courses are open not only to teachers, but also to other qualified persons who may wish to avail themselves of the opportunities offered.

Farmers' Reading Course.—For those who are unable to leave their work but desire to learn. Practical bulletins on agricultural subjects are sent to the reader and correspondence is encouraged. Free to persons residing in New York. Address, Farmers' Reading Course, College of Agriculture.

Farmers' Wives' Reading Course.—Similar to the above, but the bulletins discuss household economy, cooking, home furnishing, etc. Address, Farmers' Wives' Reading Course, College of Agriculture.

Nature Study Agriculture.—Extension work for teachers and pupils, particularly in the rural schools. A publication is issued in the interest of this work: The Cornell Rural School Leaflet, monthly, for pupils, with a Supplement for teachers. Address, Bureau of Nature Study, College of Agriculture.

The Agricultural Experiment Station issues bulletins on agricultural subjects which are sent free to residents of New York. Back numbers of some issues are available. Address, Superintendent of Mailing Rooms, College of Agriculture.

Cooperative Experiments in Agriculture.—The college cooperates with farmers in making demonstrations on their land that will be of direct practical value to them.

Correspondence and cooperation are solicited in connection with any of these various enterprises. For information, address

L. H. BAILEY,
Director of the College of Agriculture,
Ithaca, N. Y.

OFFICIAL PUBLICATIONS OF CORNELL UNIVERSITY

Issued at Ithaca, N. Y., monthly from July to November inclusive, and semi-monthly from December to June inclusive.

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These publications include the Catalogue Number (containing lists of officers and students), and the Book of Views, for each of which a charge of twenty-five cents a copy is made, and the following informational publications, any one of which will be sent gratis and post-free on request. The date of the last edition of each publication is given after the title.

General Circular of Information for prospective students, August 1, 1911.

Announcement of the College of Arts and Sciences, January 15, 1911.

Courses of Instruction in the College of Arts and Sciences, June 15, 1911.

Announcement of Sibley College of Mechanical Engineering and the Mechanic Arts, Feb. 1, 1911.

Announcement of the College of Civil Engineering, June 1, 1911.

Announcement of the College of Law, May 15, 1911.

Announcement of the College of Architecture, September 1, 1911.

Announcement of the New York State College of Agriculture, October 1, 1911.

Announcement of the Winter Courses in the College of Agriculture, November 1, 1911.

Announcement of the Summer School in Agriculture, July 1, 1911.

Announcement of the New York State Veterinary College, May 1, 1911.

Announcement of the Graduate School, March 15, 1911.

Announcement of the Summer Session, April 1, 1911.

Annual Reports of the President and the Treasurer, November, 1910.

Pamphlets on scholarships, fellowships, and prizes, samples of entrance and scholarship examination papers, special departmental announcements, etc.

Correspondence concerning the publications of the University should be addressed to

The Registrar of Cornell University,
Ithaca, N. Y.